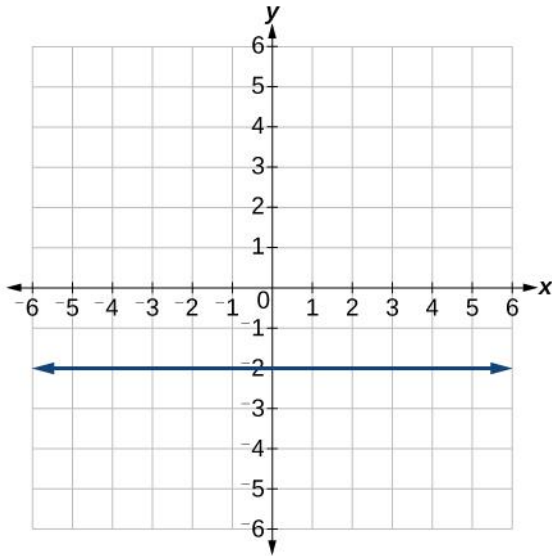


For the following exercise, find the slope of the line graphed.



**Solution**

The slope of a graphed linear function  $m$  is calculated from two different points on the graph as

$$m = \frac{\text{change in output } y}{\text{change in input } x} = \frac{\text{rise}}{\text{run}} .$$

Graphically, the rise is the difference between the  $y$ -coordinates of two different points on the graph (change in  $y$ ) and the run is the difference between the  $x$ -coordinates (change in  $x$ ) between the same two points.

Choosing the points  $(0, -2)$  and  $(1, -2)$  we find the slope to be

$$m = \frac{-2 - (-2)}{1 - 0} = 0.$$